

## Message Text

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ORIGIN COME-00

INFO OCT-01 CIAE-00 DODE-00 EB-07 NSAE-00 TRSE-00 EUR-12

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R 211719Z AUG 75

FM SECSTATE WASHDC

TO AMEMBASSY PARIS

INFO AMEMBASSY MOSCOW

C O N F I D E N T I A L STATE 198845

EXCON

E.O. 11652: GDS

TAGS: ESTC, COCOM, UR

SUBJECT: EXPORT OF PORTABLE COMPUTER-BASED SEISMIC  
DATA PROCESSING SYSTEM TO THE USSR - IL 1565

REF: BEWT CASE NO. 133052 OC DOC. NO. 5337;LD NO.2822,  
(TEXAS INSTRUMENTS, INC.) 8/18/75

1. THE UNITED STATES DELEGATION IS REQUESTED TO SUBMIT  
THE FOLLOWING URGENCY EXCEPTION CASE PURSUANT TO COCOM  
DOC. REG. (73)3, PARAGRAPH 4(B):

2. THE UNITED STATES AUTHORITIES HAVE BEEN ASKED TO  
APPROVE THE EXPORT TO THE USSR OF ONE TYPE TI CFS-1/DFS-1V  
DIGITAL FIELD SYSTEM CONFIGURED AS SHOWN IN ATTACHMENT 1,  
WITH A TOTAL VALUE OF 1,100,000 DOLLARS AND COVERED BY IL  
1565(D).

3. THIS EQUIPMENT IS CONSIGNED TO MINISTRY OF GEOLOGY,  
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4/6 BOLSHAYA GRUZINSKAYA, MOSCOW, WHERE IT WILL BE USED

IN A MOBILE VAN WITH THREE UNEMBARGOED TYPE TI DFS-IV  
DIGITAL FIELD SYSTEMS FOR DATA COLLECTION AND PROCESSING  
IN CONNECTION WITH SEISMIC EXPLORATION OF OIL.

4. THE PROPOSED EQUIPMENT CONSISTS OF 3 UNEMBARGOED TYPE  
TI DFS-IV (DIGITAL FIELD SYSTEM) AND 1 EMBARGOED TI CFS-IV  
(COMPUTERIZED FIELD SYSTEM) WITH AUXILIARY EQUIPMENT AND  
SPARE PARTS. THE DFS-IV IS A PORTABLE DATA ACQUISITION  
SYSTEM WHICH CONSISTS OF A/D CONVERTER MODULES, A  
HARDWIRED FORMAT/CONTROLLER MODULE AND A DIGITAL MAGNETIC  
TAPE TRANSPORT. SEISMIC DATA COLLECTED IN THE FIELD WITH  
A DFS-IV SYSTEM IS SUBSEQUENTLY TAKEN TO A CENTRAL  
COMPUTER SYSTEM FOR REDUCTION AND ANALYSIS. THE CFS-1/  
DFS-IV, A RECENT EXTENSION OF THE STANDARD SEISMIC FIELD  
COLLECTION SYSTEM, CONSISTS OF A PORTABLE MINICOMPUTER  
SYSTEM WHICH CONTROLS THE DATA COLLECTION AND FORMATTING.  
IN ADDITION, THE CFS-1 ALSO PERFORMS CERTAIN DATA PRE-  
PROCESSING TASKS AND RELIEVES THE CENTRAL DATA REDUCTIO  
SYSTEM OF THESE TASKS. THE EQUIPMENT WHICH MAKES UP  
THE CFS-1 COMPLEMENT IN THIS CASE INCLUDES A TI 980A  
MINICOMPUTER, 2 FIXED-HEAD DISCS, AN ARRAY TRANSFORM  
PROCESSOR (ATP) AND A DFS-IV INTERFACE. A COMPARISON  
OF PERFORMANCE CHARACTERISTICS WITH NOTE 4(B) TO IL 1565  
AND ALSO A BLOCK DIAGRAM OF THE PROPOSED SYSTEM ARE  
PROVIDED AS ATTACHMENTS 2 AND 3, RESPECTIVELY. THE ATP  
AUGMENTS THE 980A COMPUTER IN PERFORMING ADDITION, SUB-  
TRACTION, MULTIPLICATION, DIVISION, AND FAST FOURIER  
TRANSFORMS. PROCESSING IS PERFORMED IN 32 BIT FLOATING  
POINT FORMAT. ARITHMETIC CAPABILITIES AND EXECUTION  
TIMES ARE GIVEN IN ATTACHMENT 4. THE INSTRUCTION LIST  
IS LIMITED TO:

4 VECTOR INSTRUCTIONS  
1 COMPLEX ELEMENT MULTIPLY  
9 FFT INSTRUCTIONS

AT EFFECTIVE EXECUTION TIMES OF BETWEEN 4.5 AND 11.5  
MICROSECONDS.

5. IT IS FURTHER UNDERSTOOD THAT ISSUANCE OF A US EXPORT  
LICENSE FOR THE SUBJECT TRANSACTION IS CONTIGENT UPON  
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THE FOLLOWING CONDITIONS:

(1) BEFORE SHIPMENT OF ANY PART OF THIS EXPORT, THE US  
APPLICANT SHALL FURNISH TO THE UNITED STATES GOVERN-  
MENT A WRITTEN CERTIFICATION SIGNED BY THE END-USER, AS  
IDENTIFIED ABOVE, OR SIGNED BY THE IMPORTING FOREIGN  
TRADE ORGANIZATION OF SUCH END-USER'S COUNTRY, STATING  
THE SEISMIC EXPLORATION FIELD OR OTHER LOCATION AT

WHICH THE EXPORT IS TO BE USED;

(2) THE QUANTITY OF SPARES FURNISHED SHALL AT ALL TIMES BE LIMITED TO THAT NECESSARY FOR SUPPORTING THE FIELD SYSTEM AND THE COMPUTER FOR NO MORE THAN SIX MONTHS;

(3) ANY TRAINING OF PERSONNEL SHALL BE LIMITED TO THAT NECESSARY FOR MAINTENANCE, REPAIR, AND OPERATION OF THE FIELD SYSTEM AND THE COMPUTER;

(4) DURING THE THREE YEARS FOLLOWING SHIPMENT OF THE FIELD SYSTEM AND THE COMPUTER, ANY TIME AN ACCREDITED WESTERN REPRESENTATIVE OF THE US APPLICANT VISITS THE FIELD SYSTEM AND THE COMPUTER, HE (OR SHE) SHALL REPORT IN WRITING TO THE US GOVERNMENT THE GEOGRAPHICAL LOCATION OF THE FIELD SYSTEM AND THE COMPUTER, WHETHER THEY ARE BEING USED FOR THE STATED END-USES, AND WHETHER THEY HAVE BEEN ALTERED OR CHANGED SUBSTANTIALLY. SUCH VISITS AND REPORTS SHALL BE MADE AT LEAST ONCE A YEAR DURING SUCH THREE-YEAR PERIOD.

6. THE UNITED STATES AUTHORITIES CONSIDER THIS EXPORT REASONABLE AND APPROPRIATE FOR THE STATED END-USE, AND WOULD APPRECIATE THE VIEWS OF MEMBER GOVERNMENTS. URGENCY PROCEDURE INVOKED AS APPLICANT WOULD STAND TO LOSE ORDER IF EQUIPMENT NOT SHIPPED BEFORE END OF AUGUST.

FYI - US DEL MAY WISH TO DRAW UPON THE REFERENCED OC DOCUMENT, ESPECIALLY ATTACHMENT 4, IN ANSWER TO ANY QUESTIONS WHICH MAY ARISE RE DIVERSION OF THIS EQUIPMENT TO OTHER MORE STRATEGIC USES. - ATTACHMENTS 1 THROUGH 4 WERE AIRMAILED FROM COMMERCE ON 8/19/75. END FYI MAW  
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